

ABSTRACT**TITLE:**

Electronic control cell for an active matrix display organic electroluminescent diode and methods for the operation thereof and display

APPLICANTS:

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
ECOLE POLYTECHNIQUE

INVENTORS:

DREVILLON Bernard
ANCEAU François
BONNASSIEUX Yvan
STRUBEL Vincent
VANDERHAEGEN Régis

The invention relates to an electronic control cell for at least one organic light-emitting diode (OLED) of a pixel or segment of an active matrix display, the cell including at least one control circuit (6,61,62) with a control input and operating relative to a control signal arriving at a control line (5,5') and enabling to turn the OLED(s) on, one capacitive storage circuit of the control signal with a capacitor C connected to the control line, one selection circuit (4,41,42) operating relative to a selection signal V_{sel} on a selection line (3,3') and enabling electrical connection or insulation of the capacitive storage circuit with/from a control voltage V_{com} (2) relative to said selection signal. According to the invention, the storage is temporary by discharging the capacitor through a resistor R_f parallel to the capacitor. Operating methods and a display unit are also disclosed in the invention.

FIGURE 3